

U.S. DEPARTMENT OF ENERGY OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY

TRIBAL ENERGY PROGRAM MANAGEMENT



Peer Review

January 13-14, 2004

Thomas Sacco

DOE, Headquarters



DOE's Tribal Energy Program Tribal Energy Program

Promote tribal energy self-sufficiency and economic development, and foster employment on tribal lands through the use of renewable energy



Authority

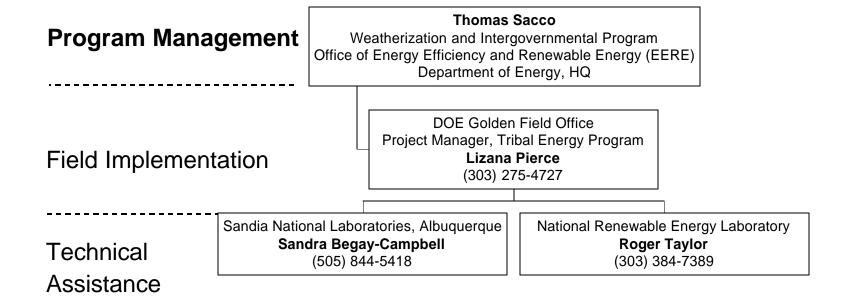
Section 2606 of Title XXVI Energy Policy Act of 1992 (P.L. 102-486)



DOE's Tribal Energy Program

Tribal Energy Program Organization

Program Management through DOE Headquarters, implementation through the DOE Golden Field Office, and technical support through the DOE's Laboratories.





Tribal Energy Program Tribal Energy Program Organization

Roles and Responsibilities

Program Management (DOE, HQ)

Provides program planning, guidance, and resources

- Provides programmatic direction
- Promote the Program
- Leverage other DOE Programs
- Facilitates coordination among other Federal agencies
- Provide technology transfer and information dissemination



DOE's Tribal Energy Program Tribal Energy Program Organization

Roles and Responsibilities

Project Management (DOE, Golden Field Office)
Field implementation for administering and managing partnerships with Tribal Governments

- Issue solicitations
- Manage resulting projects
- Promote the Program
- Leverage other DOE Programs
- Facilitates coordination among other field organizations
- Provide technology transfer and information dissemination



Tribal Energy Program Tribal Energy Program Organization

Roles and Responsibilities

Technical Assistance (DOE Laboratories)

Act in a technical advisory capacity to the Program, projects and Golden Field Office

- Technical advice
- Technical project support
- Assist in the review of applications
- Assist in monitoring projects
- Promote the Program
- Leverage other DOE Programs
- Provide technology transfer and information dissemination



DOE's Tribal Energy Program Tribal Energy Program

Program Management

Program Reviews

Peer Review (2001)

Project Reviews

- Annual Projects Reviews (2002, 2003)
- Bi-annual Project Status Meeting

Planning Sessions

- Strategy Session (December 2001)
- Tribal Energy "Handbook" Workshop (December 2002)
- Roadmap Meeting (2003)

Program Planning and Coordination

- Annual Operating Plans
- Bi-monthly Teleconferences



Tribal Energy Program Tribal Energy Program

Assist Tribes Meet Their Energy Goals

Developing in Cooperation with Tribes

- Peer Review (November 2001)
- DOE/Inter-tribal Energy Network (ITEN) Strategy Session (December 2001)
- DOE/ITEN Tribal Energy "Handbook" Workshop (December 2002)
- Collaborative activities with Tribal and Inter-Tribal Groups

Supporting Government-to-Government Relations

Cooperative agreements between DOE and the Tribes



Providing Financial Assistance

Providing Funding Opportunities

Competitive Solicitations

Facilitating Government Cooperation and Leveraging Resources

- Inter-Governmental Working Group (2002)
- Leverage other DOE Program resources

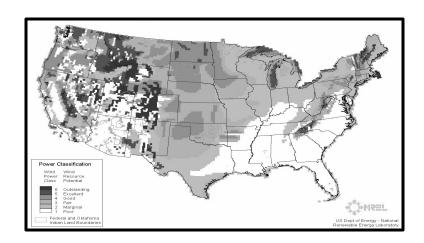


DOE's Tribal Energy Program Tribal Energy Program

Providing Technical Assistance

Technical Assistance

- Technology Advice
- Models and Tools
- Resource Maps
- Strategic Planning
- Project Management Support



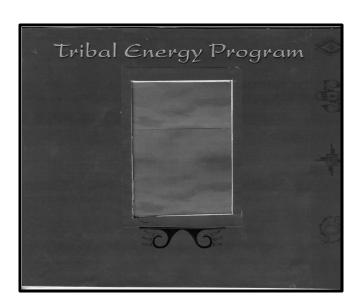


Tribal Energy Program Tribal Energy Program

Providing Information and Education

Information and Education

- Regional Workshops
- Program Brochure
- Conferences
- Tribal Energy Website
- Summer Internships
- Teach-the-Teacher Workshop
- Guide for Tribal Energy Development (Under development)





PEER REVIEW (November 2001)

Peer Review Results

- DOE's Primary Interface Needs to be with Tribal Leaders
- Focus on the Core Interests of the Tribe and Tribal Community as a Whole
- DOE and DOE Laboratories Need to be More Proactive
- Integrate DOE Native American Activities
- Inadequate Program Funding

Recommendations

- Build on Tribal Wisdom in Future Planning
- Organize a Meeting Among Tribal Representatives

Resulted in DOE/ITEN Strategy Session (December 2001)



DOE PERSPECTIVE

 Develop a program that supports Tribal energy selfsufficiency

STRATEGIC PLANNING SESSION

 Seek Tribal wisdom for developing a long-term DOE program for renewable energy development on Native American lands

Develop a DOE Indian Energy Program that supports the National Tribal Energy Vision



Shared Vision for Tribal Renewable Energy by 2012

Vision Focus

- Sustainable Human Capacity through Empowerment & Education
- Integrated Communication & Technical Assistance Network
- Tribes Leading Renewable Industry At Home, Regionally & Worldwide
- Building & Restoring Tribal Economies Through Inter-Tribal Partnerships & Alliances
- Modeling Energy Efficiency Practices & Technology



Shared Vision for Tribal Renewable Energy by 2012

Vision Focus (Continued)

- Institutionalizing Tribal Planning & Management Capability
- Tribal Ownership & Regulation of Utilities
- Tribes Have Equal Standing In Renewable Energy Policy & Legislation
- Institutionalized Indian Program at DOE
- Trust Responsibility Commitment Through Contracts & Partnerships in Renewable Energy Development
- Full Participation In Energy Financing Markets



Shared Vision for Tribal Renewable Energy by 2012

Issues & Obstacles to the Vision

- Undeveloped Capacity & Unorganized Marketplace
- Competing Values & Interests
- Funding Indian Renewable Energy Development is Not Priority
- Unclear Direction on Implementing DOE Indian Energy Policy



Shared Vision for Tribal Renewable Energy by 2012

Strategies to Meet Shared Vision

- Leverage Existing Networks to Facilitate Inter-Tribal Experience Sharing
- Clearinghouse of Tribally Relevant Renewable Energy Information
- Develop Market Mechanisms For Tribal Renewable Energy*
- Influencing & Facilitating Funding Opportunities
- Assure Visible Success in Tribal Renewable Energy Projects
- Coordinate Legislative Strategy to Meet Tribal Renewable Energy Needs*
- Establish Teams to Develop Regional & Topical Strategic Plans
- Create Opportunities for Tribal Professional Development

^{*} Not Addressed



Leverage Existing Networks to Facilitate Inter-Tribal Experience Sharing

- Conduct Regional Renewable Energy Road Show in Concert with ITEN
- Embrace and expand Native American Wind Energy Interest Group (NAWIG)
- DOE/NREL participate in Sustainable Conference

- Ten (10) regional workshops in collaboration with CERT & ITEN planned FY2004
- Quarterly NAWIG News newsletter issued Winter 2003 (WPA Activity)
- DOE/NREL/SNL participated in CERT Sustainability Conferences (March 2002, October 2002, April 2003, September 2003)
- Participated in twenty-seven (27) conferences and workshops (FY2002-FY2003)



Clearinghouse of Tribally Relevant Renewable Energy Information

- DOE/NREL Web page
- Establish web-based Technical Assistance for Tribal Renewables
- Compile Case Studies and Planning Manual
- Assemble Success Stories, How-To's, Lessons Learned
- Formalize DOE/Laboratory Native American Network
- Capitalize on Positive Media Opportunities

- Tribal Energy Program Website Developed
- Web-based Guide to Tribal Energy Development (Under development)



Clearinghouse of Tribally Relevant Renewable Energy Information (Continued)

- Assistant Secretary Garman Keynote Speaker at Sustainability Conference (April 2003)
- Assistant Secretary Garman Keynote Speaker at Southwest Renewable Energy Conference and Fair (August 2003)
- DOE news releases issued for awards and posted on Tribal Energy website
- U.S. Newswire carried DOE news release of awards
- Article published in Land Letter, a Natural Resource Weekly Report



Clearinghouse of Tribally Relevant Renewable Energy Information (Continued)

- Solar Way magazine published
- Participated in twenty-seven (27) conferences and workshops (FY2002-FY2003)
- Article published in NW Energy Coalition Report
- Various local newspaper coverage of awards
- Laboratory network established and specific projects assigned



Influence and Facilitate Funding Opportunities

- Resolve issues with RUS/USDA and ITEN Tribes
- Establish RUS set-aside for Tribes
- Leverage other Federal funding

- Established a Federal Working Group (2002)
- Continued coordination with Federal agencies (EPA, USDA, DOI, HUD, DOJ)
- Participated in four EPA and BIA Tribal conferences (FY2002-FY2003)
- Provided comments to RUS proposed policy change that resulted in the eligibility of renewable energy under RUS programs



Assure Visible Success in Tribal RE Projects

- Complete the Navajo Electricity Project
- Commission Blackfoot, Rosebud, Fort Peck, and Alaska Wind Projects
- Develop Pueblo of Jemez project

- Navajo Electrification Projects Congressionally funded and on-going
- Provided technical assistance to Navajo Solar Project
- Rosebud Sioux turbine dedicated April 2003
- Pueblo of Jemez awarded funding for geothermal feasibility study FY2002



Assure Visible Success in Tribal RE Projects (Continued)

- Commissioning planned for utility-scale turbines within 6-months at:
 - Fort Peck Community College
 - Turtle Mountain Community College
 - Fort Berthold Reservation



Create Opportunities for Tribal Professional Development

- NREL/DOE hire a Native American as a liaison
- Utilize NTUA as model for young professionals
- DOE/NREL host interns

- Native American designated as DOE's Tribal Liaison
- Incorporated capacity building within "First Steps" solicitation (2003)
- Sponsored three interns at SNL (Summer 2003), who worked with the Navajo Tribal Utility to develop operation and maintenance plans



Create Opportunities for Tribal Professional Development (Continued)

- Sponsored three interns (1 faculty and 2 students) at NREL (2001)
- Year-round Native American intern at SNL (2002-2003)



Establish Teams to Develop Regional & Topical Strategic Plans

- Develop Energy Efficiency Audit Program
- Solidify alliances between Tribes, DOE, Laboratories and ITEN
- Comprehensive Renewable Energy Assessment of Tribal resources

- Collaborating with the DOE Weatherization Program for Tribal access to funding for efficiency measures
- Continued collaboration with Tribes, ITEN and CERT (participated in 11 tribal specific conferences and hosted 3 meetings/workshops)



Establish Teams to Develop Regional & Topical Strategic Plans (Continued)

- Reservation specific resource mapping
- Generated Tribal College & University wind resource maps
- Incorporated resource options analysis and strategic planning within "First Steps" solicitation (2003)



Establish Teams to Develop Regional & Topical Strategic Plans

 Begin development of the 2012 Indian Energy Road Map and implement research agenda

- On-going planning through Annual Operating Plans
- Tribal Energy Program Strategic Planning Session (December 2003)
- Ten (10) regional workshops planned (FY2004)



	FY2002	FY2003	FY2004
Requested	\$2,100	\$8,307	\$6,000
Enacted	\$3,000	\$6,000*	\$5,000**
Discretionary	\$3,000	\$5,000	\$1,700

^{*} Total of \$1,000,000 earmarked to the Council of Energy Resource Tribes (CERT)

^{**} Total of \$3,300,000 earmarked to CERT, ICOUP, and Pyramid Lake Paiute



FY 2002 TRIBAL ENERGY PROG	
"Renewable Energy Development on Tribal Lands" *	\$3,000,000
(Solicitation No. DE-PS36-03GO92006) for:	
Feasibility studies and development projects	
Technical Assistance**	
NREL	\$200,000
Sandia	\$100,000
	\$3,300,000
* Includes carryover funds of \$300,000	
** Funded directly	

91% of DOE Funds Directly to Tribes



FY 2003 TRIBAL ENERGY PROGRAM		
"Renewable Energy Development on Tribal Lands"	\$1,950,000	
(Solicitation No. DEPS3603GO93002) for:		
Feasibility studies and development projects		
"First Steps Toward Developing Renewable Energy	\$800,000	
and Energy Efficiency on Tribal Lands"		
(Solicitation No. DEPS3603GO93003) for:		
Strategic Energy Planning		
Energy Options Analysis		
Energy Organization Development		
Human Capacity Building		
FY2002 selected projects funded in FY2003	\$1,440,000	
Feasibility Studies		
Technical Assistance**		
NREL	\$350,000	
Sandia	\$150,000	
Council for Energy Resource Tribes – Earmark	\$961,000	
Technology Transfer, Education, and Program Support	\$29,000	
Summer internships	*	
Education and outreach at tribal events and conferences	*	
Tribal conference support	*	
Solicitation support	*	
	\$5,680,000	
* Within available resources		
** Funded directly		

91% of DOE Funds Directly to Tribes



ACTUAL FY 2003 TRIBAL ENER	GY PROGRAM	I FUNDING	
	Planned	Planned	Actual
"Renewable Energy Development on Tribal Lands"	\$1,950,000		
(Solicitation No. DEPS3603GO93002) for:			
Selected feasibility studies		\$950,000	\$894,067
Selected development projects		\$1,000,000	\$1,226,905
"First Steps Toward Developing Renewable Energy	\$800,000		
and Energy Efficiency on Tribal Lands"			
(Solicitation No. DEPS3603GO93003) for:			
Selected projects		\$800,000	\$775,078
FY2002 selected projects funded in FY2003	\$1,440,000	\$1,440,000	\$1,479,967
Feasibility Studies			
Technical Assistance**			
NREL	\$350,000	\$350,000	\$397,100
Sandia	\$150,000	\$150,000	\$150,000
Council for Energy Resource Tribes – Earmark	\$961,000	\$961,000	\$961,000
Technology Transfer, Education, and Program Support	\$29,000		
Summer internships	*	\$23,010	\$23,010
Education and outreach at tribal events and conferences	*	*	
Tribal conference support	*	*	
Solicitation support	*	\$5,990	\$12,384
Available Funds	\$5,680,000	\$5,680,000	\$5,919,511
Carryover Funds	\$0	\$240,000	
Unspent Funds			\$489
TOTAL FUNDING	\$5,680,000	\$5,920,000	\$5,920,000



TRIBAL ENERGY PROGRAM

ACCOMPLISHMENTS

- Ninety-one percent (91%) of DOE funding awarded to Tribes
- DOE funds of \$7.5 million leveraged by \$1.93 million (20%) in cost share
- Cost share exceeds minimum required by 630% (required \$306,700)



PLANNED FY2004 ANNUAL OPERATING	G PLAN
"Renewable Energy Development on Tribal Lands" Solicitation	\$1,340,000
"First Steps Toward Developing RE and EE on Tribal Lands" Solicitat	ion \$800,000
Regional Tribal Collaboration Solicitation**	\$0
FY2003 Selected Feasibility Studies	\$1,400,000
Tribal Education	\$100,000
Student Internships***	\$50,000
Tribal Energy Efficiency Initiative	\$200,000
Technical Assistance	
NREL	\$820,000
Sandia	\$150,000
Council for Energy Resource Tribes (CERT) – Earmark**	\$961,000
Meetings and Reviews***	
FY2004 Peer Review	\$25,000
Project and Program Reviews	\$25,000
Technology Transfer	\$29,000
Education and outreach at tribal events and conferences	*
Tribal conference support	*
Solicitation support	*
Program Reductions	\$100,000
	\$6,000,000
* Within available resources	\$3,000,000
** Applied to FY2004 Regional Tribal Collaboration Solicitation, if not earmarked	
*** Funds included in NREL/SNL AOP	



FY2004 CONGRESSIONAL LANGUAGE

Under Intergovernmental Activities.-*The conference agreement includes \$5,000,000 for tribal energy activities, including*

- \$1,000,000 for the Council of Renewable Energy Tribes,
- \$1,300,000 for the Intertribal Council on Utility Policy, and
- \$1,000,000 for the Pyramid Lake Paiute Tribe Renewable Energy Park.

Available Discretionary funds \$1,700,000



REVISED FY2004 ANNUAL OPERATING	PLAN
"Renewable Energy Development on Tribal Lands" Solicitation	\$0
"First Steps Toward Developing RE and EE on Tribal Lands" Solicitation	\$0
Regional Tribal Collaboration Solicitation	\$0
FY2003 Selected Feasibility Studies	\$900,000
Tribal Education	\$0
Student Internships	\$50,000
Tribal Energy Efficiency Initiative	\$0
Technical Assistance	
NREL	\$400,000
Sandia	\$150,000
Congressional Earmarks	
Council for Energy Resource Tribes (CERT)	\$1,000,000
Intertribal Council on Utility Policy (ICOUP)	\$1,300,000
Pyramid Lake Paiute Tribe Renewable Energy Park	\$1,000,000
Meetings and Reviews	
FY2004 Peer Review	\$0
Project and Program Reviews	\$0
Technology Transfer	\$0
Education and outreach at tribal events and conferences	*
Tribal conference support	*
Solicitation support	*
Program Reductions	\$200,000
	\$5,000,000

85% of DOE Funds Planned Directly to Tribes



FY2004 Planned Awards

FY2003 Selected Feasibility Studies						
#	Technology	Applicant Name	Project Title	DOE Costs	Cost Share	Total
EAS	BILITY STUDY	APPLICATIONS				
1	Solar/Wind	Kenaitze Indian Tribe, IRA	Renewable Energy Resources Feasibility Study	\$40,354	\$3,824	\$44,178
2	Wind	Affiliated Tribes of the Fort Berthold Reservation	Three Affiliated Tribes Renewable Energy Feasibility Study	\$221,952	\$47,250	\$269,202
3	Biomass	Ak-Chin Indian Community	Ak-Chin Biomass Feasibility Study	\$97,036	\$0	\$97,036
4	Wind, Biomass, Solar, Wave	Quinault Indian Nation	Quinault Indian Nation Renewable Energy Feasibility Study	\$150,000	\$82,805	\$232,805
5	Wind	S & K Holding Company, Inc.	Flathead Renewable Energy Feasibility Study	\$202,788	\$47,250	\$250,038
6	Biomass	Yavapai-Apache Nation	Yavapai-Apache Forest Biomass Feasibility Study	\$126,897	\$0	\$126,897
7	PV, solar, hot water, hydronics	Mesa Grande Band of Mission Indians	Renewable Energy Feasibility Study for Mesa Grande Reservation	\$50,000	\$0	\$50,000
ОТА	L FEASIBILITY			\$889,027	\$181,129	\$1,070,156